

# NISHANT BALAJI

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## EDUCATION

### University of California San Diego

B.S. Computer Engineering

3.85 GPA

Oct 2020 - Jun 2024

## WORK EXPERIENCE

### NVIDIA

Software Engineering Intern

Mar 2022 - Present

Santa Clara, CA

- Worked on the **Hardware Infrastructure Group** in the **Security Team** as a Software Engineering Intern.
- Used **Django**, **Grafana**, and **Open Telemetry** to improve logging and metrics.

### UCSD CSE Department

Tutor

Jan 2023 - Present

La Jolla, CA

- Taught Programming Tools & Techniques to **650+ students**
- Led weekly lab sections of **100+ students** in learning and assisting with questions.

### NVIDIA

Software Engineering Intern

Jun 2022 - Sep 2022

Santa Clara, CA

- Working on the **Hardware Infrastructure Group** in the **Test Automation Team** as a Software Engineering Intern.
- Using **React**, **Fast API**, and **Redis** to develop a web interface for hardware architects to view tests running on the layers of hardware.
- Implemented **websockets** to live update data throughout the platform, providing users a real-time view of their running test batches.
- Creating **continuous integration pipelines** to effectively test and deploy code using **Docker** and **Kubernetes**.

### NASA Goddard Space Flight Center

Software Engineering / Machine Learning Intern

Aug 2021 - Dec 2021

Greenbelt, MD

- Worked with the **Earth Observation System Data and Information System** team on **usage-based data discovery**.
- Developed automated **Natural Language Processing** tools to identify and classify external usage of Earth Observation data.
- Created pipelines to streamline classification of **6000+ articles** by topic.

### NOMAD (acquired by WISH STR Enterprises)

Software Engineer

Sep 2020 - Aug 2021

Los Angeles, CA

- Socially responsible startup serving to provide affordable real estate rentals to the general public.
- Used **Stripe** to create a payment workflow for renters and a payout workflow for hosts with **Node.js**, and **React**.
- Developed **continuous integration pipelines** for deployment on **Firebase** and **AWS Elastic Beanstalk**.

## LEADERSHIP EXPERIENCE

### Association for Computing Machinery (ACM) at UCSD

Vice President of Events

May 2021 - Present

La Jolla, CA

- Coordinated event logistics for **230+ yearly workshops and social events** held within ACM communities, reaching **2000+ students**.
- Managed a team of **15+ others** and collaborated in planning and creating technical workshops for ACM members.
- Fostered the development of **ACM's outreach program** that exposed computer science to hundreds of students.

## PROJECTS

### Triton Software Engineering at UCSD

Full Stack Developer

Nov 2021 - Present

La Jolla, CA

- Worked with **Next.js** and **PostgreSQL** to create a website for the non-profit organization **League of Amazing Programmers**

### Engineers for Exploration: Acoustic Species Identification Project

Software Engineer

Feb 2021 - Aug 2021

La Jolla, CA

- Collaborated with conservation researchers at the **San Diego Zoo** to develop **automated pipelines** to identify species vocalizations.
- Used **React**, **Flask** and **Docker** in developing the Audio Labeling System to process and visualize over **1500 hours of audio data**.

## SKILLS

**Languages** Java, Python, JavaScript, Typescript, C, C++, Go, Bash, ARM Assembly, HTML, CSS, MATLAB

**Technologies** React, REST APIs, Node.js, Flask, FastAPI, Redis, PostgreSQL, Next.js, Figma, MongoDB, Express, Git, JUnit, Make, Android, Robolectric, Espresso

**Software** AWS, Google Cloud Platform, Github Actions, Docker, Heroku, Netlify, Valgrind, Postman, PSpice, LTSpice